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ATTORNEY DOCKET NO. APPLICATION NO. FILING DATE CONFIRMATION NO. FIRST NAMED INVENTOR 10/067,294 02/07/2002 Akihiro Hashiguchi Q68446 7908 07/25/2003 7590 SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC **EXAMINER** 2100 Pennsylvania Avenue, N.W. KIM, PETER B Washington, DC 20037 ART UNIT PAPER NUMBER 2851

DATE MAILED: 07/25/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	1	Applicant(s)	
	10/067,294	10/067,294 HASHIGUCHI, AKIHIRO		
Office Action Summary	Examiner		Art Unit	
	Peter B. Kim		2851	
The MAILING DATE of this communication app Period for Reply	ears on the cover	sheet with the co	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, hower within the statutory minual apply and will expire statuse the application to	ver, may a reply be time mum of thirty (30) days SIX (6) MONTHS from to become ABANDONED	ely filed will be considered timely. he mailing date of this communication (35 U.S.C. § 133).	on.
1) Responsive to communication(s) filed on	<u> </u>			
2a) This action is FINAL . 2b) ⊠ Thi	is action is non-fi	nal.		
3) Since this application is in condition for allowated closed in accordance with the practice under a Disposition of Claims	•	•		is
4) Claim(s) 1-7 is/are pending in the application.				
4a) Of the above claim(s) is/are withdray	vn from considera	ation.		
5) Claim(s) is/are allowed.				
6)⊠ Claim(s) <u>1-7</u> is/are rejected.				
7) Claim(s) is/are objected to.				
8) Claim(s) are subject to restriction and/or	election requirer	ment.		
Application Papers				
9) The specification is objected to by the Examiner	·.			
10)⊠ The drawing(s) filed on <u>07 February 2002</u> is/are	: a)□ accepted or	b) objected to	by the Examiner.	
Applicant may not request that any objection to the	e drawing(s) be held	d in abeyance. Se	e 37 CFR 1.85(a).	
11) The proposed drawing correction filed on	is: a)⊡ approve	d b)□ disapprov	ed by the Examiner.	
If approved, corrected drawings are required in rep		ion.		
12) The oath or declaration is objected to by the Exa	aminer.			
Priority under 35 U.S.C. §§ 119 and 120				
13)⊠ Acknowledgment is made of a claim for foreign	priority under 35	U.S.C. § 119(a)	-(d) or (f).	
a)⊠ All b)□ Some * c)□ None of:				
 Certified copies of the priority documents 	s have been rece	ved.		
2. Certified copies of the priority documents have been received in Application No				
3. Copies of the certified copies of the prior application from the International Bur * See the attached detailed Office action for a list of the certified copies of the prior and the certified copies of the prior and the certified copies of the prior and the certified copies of the prior application for a list of the certified copies of the prior application for a list of the certified copies of the prior application for a list of the certified copies of the prior application from the list of the prior application for a list of the prior application from the	eau (PCT Rule 1	7.2(a)).		
14) Acknowledgment is made of a claim for domestic	priority under 35	5 U.S.C. § 119(e)) (to a provisional applica	tion).
a) The translation of the foreign language pro-				
Attachment(s)				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 82	4) [] 5) [] 2002,220026) []		(PTO-413) Paper No(s)atent Application (PTO-152)	•
S. Patent and Trademark Office				

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DETAILED ACTION

Drawings

The drawings are objected to because reference 1 is not indicated in the drawings. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Specification

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The disclosure is objected to because of the following informalities: on page 6, line 29 instead of "2," "two" seems to be more appropriate. On page 14, line 26, instead of "4," "four" seems to be more appropriate. On page 11, line 24, "through1d" seem to be a typo. The following areas have information which is not represented very clearly:

On page 3, lines 2-10, it is not clear how the wrinkle can be suppressed and "[a]ccording to this," the processing quality is deteriorated. On page 11, line 26 – page 12, line 5, it is not clear what the temperature difference level is. On page 15, line 24 – page 16, line 2, it is not clear what is "characteristic." On page 18, lines 10-14, it is not clear what is meant by "a few different."

Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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Claims 2-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding Claim 2, the structural relationship between the "rotating body" and "one rotating body constituting the rotating body pairs" is not clear.

The remaining claims, not specifically mentioned, are rejected for incorporating the defects from the base claim by dependency.

The following art rejection is made based on the examiner's best understanding of the claims.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakabashi (JP 2000-330252) in view of Ogawa et al. (Ogawa) (6,320,642).

Nakabashi discloses a heat developing apparatus with a preliminary heating means (II) that has plurality of rotating body pairs (2A, 2B) for nipping the heat developing sheet and for heat-conveying it to the developing temperature and after the heat developing sheet is b rought into contact with the rotating body from the tangential line direction of a point on an outer periphery of one rotating body constituting the rotating body pairs, the heat developing sheet is nipped. Nakabashi also discloses at least one roller in the rotating body pairs that is a heating

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roller (2A) and comprising thick-wall metallic pipe (para 0015). However, Nakabashi does not disclose changing direction of the heat developing sheet by the pair of rotating body pairs.

Ogawa discloses in Fig. 19, the heat development apparatus with the rotating elements used to change direction of the heat developing sheet. Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to provide the change of the direction as taught by Ogawa to the invention of Nakabashi in order to obtain wrinkle and crease free paper as taught by Ogawa in col. 13, lines 9-15.

Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakabashi in view of Allen (5,893,003).

Nakabashi discloses a heat developing apparatus with a preliminary heating means (II) that has plurality of rotating body pairs (2A, 2B) for nipping the heat developing sheet and for heat-conveying it to the developing temperature and after the heat developing sheet is b rought into contact with the rotating body from the tangential line direction of a point on an outer periphery of one rotating body constituting the rotating body pairs, the heat developing sheet is nipped. Nakabashi also discloses at least one roller in the rotating body pairs that is a heating roller (2A) and comprising thick-wall metallic pipe (para 0015). However, Nakabashi does not disclose changing direction of the heat developing sheet by the pair of rotating body pairs. Allen discloses in Fig. 1, the heat development apparatus (14) with the rotating elements (16) used to change direction of the heat developing sheet. Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to provide the change of the direction as taught by Allen to the invention of Nakabashi in order to maintain correct optical density as taught by Allen in col. 5, lines -19.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter Kim whose telephone number is (703) 305-0105. The examiner can normally be reached on Monday-Thursday from 8:30 AM to 6:00 PM. The examiner can also be reached on alternate Fridays during the same hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Russ Adams can be reached on 703 308 2847. The fax phone numbers for the organization where this application or proceeding is assigned are 703 872 9318 for regular communications and 703 872 9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 306 3431.

Peter B. Kim

Patent Examiner

July 24, 2003